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THE 1952 RADIO DAY SESSION OF VNORiE

The All-Union Scientific and Technical Society of Radio Engineering and Electric Communications imeni A. S. Popov (VNORiE), together with the Ministry of Communications, Ministry of the Communications Equipment Industry, Committee of Radio Information affiliated with the Council of Ministers USSR, and the Council of Radio Physics and Radio Engineering of the Academy of Sciences USSR conducted a scientific session in Moscow dedicated to 1952 Radio Day [May]. Representatives of communications enterprises, scientific research institutes, higher educational institutions, and plants took part in the session.

Z. V. Topuria, Deputy Minister of Communications USSR and Stalin Prize winner, opened the session. Academician A. I. Berg appeared with a report entitled "Development and Accomplishments of Soviet Radio Engineering and Electric Communications in 1951."

During the plenary and sectional conferences, the participants of the session heard more than 60 lectures on practical problems of radio engineering and electric communications.

The Radio Broadcasting Section (Professor I. Ye. Goron, director) gave considerable attention to wire broadcasting problems. The following reports were submitted: I. A. Shamshin and N. V. Zaryanov "Forced-Air Cooling of Powerful Radio Tubes in Broadcasting Stations"; V. N. Zhirnov "Construction of a Power Amplifier With an Output Stage Operating as a Cathode Follower"; V. Z. Nyurenberg "Principles of Remote Quality Control of Wired Loudspeakers"; and P. N. Chernov and A. V. Kostromitinov "Test and Measuring Equipment for Checking the Electro-acoustical Characteristics of Radio Broadcast Stations."

A number of meetings of the Radio Broadcasting Section were held jointly with the Electroacoustics and Sound Recording Section. At the excursion to the "Mosfilm" Studio, reports were read by M. Z. Vysotskiy on "Magnetic-Photographic Method of Recording Sound on Motion-Picture Film," A. I. Parfentiyev on "Investigation of Ferromagnetic Strips and Recordings," and A. A. Vroblevskiy on "Contact Erasure of Magnetic Recordings."

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Both sections also heard the reports of A. V. Rimskiy-Korsakov on "Calculation of a Ribbon Microphone," V. K. Iofe on "New Developments of the Institute of Radio Reception and Acoustics in the Microphone Field," and I. M. Litvak on "A New Set of Acoustical Measuring Equipment."

The Electroacoustics and Sound Recording Section (S. N. Rzhevkin, director) discussed the following reports: V. M. Vol'f's "A Dynamic Method of Measuring Nonlinear Distortion," B. G. Belkin's "Measuring Nonlinear Distortion in Loudspeakers," D. Kh. Shifman's "Improving the Reproduction of the Lower Frequencies in Small Broadcast Receivers," and L. D. Rosenberg's "Plane Hyperbolic Sound Lenses."

The reports submitted in the Antenna Section (Professor G. Z. Ayzenberg, director), showed that Soviet specialists have made great progress in the last year in the development of antenna theory and practice. In addition, new antenna systems have been developed for the collective reception of television and radio broadcasting. The Television Section (Professor S. I. Katayev, director) together with the Antenna Section, heard the reports of S. G. Kalikman, I. K. Gurevich, and V. D. Kuznetsov on such collective antennas. The session recommended that further work be done to simplify and improve the proposed antenna systems.

The section also discussed the report of A. A. Babenko and Ye. P. Karputkin "Principles and Operation of 'Screen Magnifiers' in Commercial Television Receivers."

The Receiving Equipment Section (Engineer V. S. Mel'nikov, Stalin Prize Winner, director) considered a number of interesting problems, particularly those dealing with suppression of radio interference created by motor transport. V. A. Roditi reported on this subject.

After hearing the reports of M. I. Oblezov "Ferrites and Their Use for Tuning Purposes in Broadcast Receivers," and A. F. Senchenko "Design of a Magnetic Variometer," the session pointed out the need for substantially improving the technical characteristics of ferrites.

With regard to B. A. Ostroumov's report on "Soviet Priority in the Development of Crystal Electronic Relays as Reflected in the Works of O. V. Losev," the session noted the need for introducing crystal triodes into equipment for rural radiofication.

The reports of L. B. Slepyan "The Role of Electromagnetic Waves in the Transmission of Electrical Energy," and S. N. Losyakov "Time Delay of Signals and Capacitance of a Radio Line for Various Methods of Modulation," were widely discussed in the Theoretical Radio Engineering Section (Professor V. N. Kessenikh, director).

With regard to M. V. Laufer's report "Spectral Composition of Frequency-Modulated Oscillations for a Complex Periodic Law of Modulation," the session noted the original solution and practical value of their results.

Other reports read in this section were I. M. Kogan's "Application of Nonlinear Methods in Engineering Calculation," A. A. Galkin and P. A. Bezugliy's "The Absorption of an Electromagnetic Field by Superconductors," A. K. Piskunov's "Study of the Electrical Characteristics of Substances With High Losses by the Oscillographic Method" and G. V. Voyshvillo's "Relationship Between Frequency and Phase Characteristics."

A number of reports submitted in the Radio Transmitting Equipment Section (Professor B. P. Terent'ev, director) are of considerable practical and theoretical interest. In the report "Application of Self-Anode Modulation in Low-Power Transmitters," N. G. Kruglov considered the possibility of adopting this modulation system in transmitters using pentodes.

A. A. Magazanik's report on "Equipment for Inter-Oblast Communications With Frequency Shift Keying and Its Construction Principles" is of great practical importance.

The Materials and Application of Radio Methods Section (Professor A. M. Kugyshev, director) heard several reports including those of A. V. Netushil on "Some Problems in Electrical Heating Theory" and L. I. Rabkin on "High-Frequency Magnetic Materials in Communications Engineering."

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